AUTHOR INDEX

VOLUME 61

Allen, Thomas E., 105
Anderson, P., 33
Arnaise, Sylvie, 411

Bairoch, Amos, 393
Balish, Edward, 170
Banat, Ibrahim M., 47
Brown, James R., 456

Coppin, Evelyne, 411
Corbett, Anita H., 193
Cronan, John E., Jr., 429
Crosa, Jorge H., 319

Deamer, David W., 239
Debuchy, Robert, 411
Deitsch, Kirk W., 281
Dennis, Patrick P., 90
Desai, Jitendra D., 47
Doolittle, W. Ford, 456
Drlica, Karl, 377

Falkow, Stanley, 136
Finlay, B. Brett, 136

Gallegos, María-Trinidad, 393
Grogan, Dennis W., 429

Heidmann, Stefan, 105
Hofmann, Kay, 393

Khan, Saleem A., 442
Koch, Arthur L., 305
Kogoma, Tokio, 212
Kotełko, Krystyna, 65

Luján, Hugo D., 294

Marzluf, George A., 17
Mowatt, Michael R., 294
Moxon, E. Richard, 281

Nash, Theodore E., 294

Picard, Marguerite, 411

Ramos, Juan L., 393
Rózalski, Antoni, 65

Schleif, Robert, 393
Schink, Bernhard, 262
Seiwert, Scott D., 105
Shimmin, Lawrence C., 90
Sidorczyk, Zygmunt, 65
Silver, Pamela A., 193
Stuart, Kenneth, 105
Surdin-Kerjan, Yolande, 503

Thomas, Dominique, 503
Thöny-Meyer, Linda, 337

Wellems, Thomas E., 281
Williamson, Donald H., 1
Wilson, Robert J. M., 1

van Elsas, Jan Dirk, 121
van Overbeek, Leonard S., 121
van Veen, Johannes A., 121
Vázquez-Torres, Andrés, 170

Zhao, Xilin, 377
Zumft, Walter G., 533

SUBJECT INDEX

VOLUME 61

Adherence
  common themes, 136
Antigenic variation
  genetic mechanisms, 281
Apicomplexa
  extrachromosomal DNA, 1
Apoptosis
  kinase cascades, 33
AraC/XylS family
  mechanisms of action, 393
  structure-function organization, 393
Archaea
  phylogeny, 456
  salinity-mediated selection, 90
Ascomycetes
  mating types, 411
  sexual development, 411
ATP
  methanogenesis, 262

Bacillus
  surfactin production, 47
Bilayer membranes
  first living systems, 239
Biogenesis
  respiratory cytochromes, 337

Candidiasis
  macrophages, 170
cfa
  cyclopropane ring formation, 429
Chromosome
  stable DNA replication, 212
Commercial applications
  biosurfactants, 47
Contingency genes
  antigenic variation, 281
Cyclopropane ring formation
  in phospholipids of bacteria, 429
Cyst formation
  G. lamblia, 294
Cytochromes
  posttranslational maturation, 337

Denitrification
  cell biology and molecular basis, 533
Development
  mating types in ascomycetes, 411
Differentiation
  G. lamblia, 294

Ecology
  slow growth, 305
  soil microorganisms, 121
Electron transport
  biogenesis of cytochromes, 337
Encystation
  G. lamblia, 294
Energetics
  denitrification, 533
  first living systems, 239
  methanogenesis, 262
Escherichia coli
  iron uptake, 319
Evolution
  Archaea, 456
  halophilic archaea, 90
Extrachromosomal DNA
  apicomplexa, 1

Fungi
  mating types, 411
  nitrogen metabolism, 17
Fur
  iron uptake, 319

Giardia lamblia
  differentiation into cysts, 294
gRNA
  kinetoplastid protozoa, 105
Growth states
  slow growth, 305
Gyrase
  4-quinolones, 377

Heme
  biogenesis of cytochromes, 337
Hypermutability
  antigenic variation, 281

Invasion
  common themes, 136
Iron
  regulation of uptake, 319

Kinase cascades
  entry into apoptosis, 33
Kinetoplastid protozoa
  RNA editing, 105
kRNA
  kinetoplastid protozoa, 105

Macromolecules
  nucleocytoplasmic transport, 193
Macrophages
  candidiasis, 170
Mating
  filamentous ascomycetes, 411
Maturation
  biogenesis of cytochromes, 337
Membrane lipids
  cyclopropane ring formation, 429
MET
  sulfur metabolism in *S. cerevisiae*, 503
Metabolism
  of nitrogen in fungi, 17
  of sulfur in *S. cervisiae*, 503
  slow growth, 305
Methanogenesis
  energetics of syntrophism, 262
Mitochondria
  DNA in apicomplexa, 1
  RNA editing in kinetoplastids, 105

Neurospora crassa
  nitrogen metabolism, 17
Nitrogen
  denitrification, 533
  metabolism in fungi, 17
Nucleus
  transport of macromolecules, 193

Oil industry
  biosurfactants, 47
Origin of life
  energetics, 239

Pathogenicity
  antigenic variation, 281
  common themes, 136
Phagocytosis
  C. albicans, 170
Phospholipids
  cyclopropane ring formation, 429
Phylogeny
  Archaea, 456
Plasmids
  rolling-circle replication, 442
Plasmodium falciparum
  extrachromosomal DNA, 1
Plastid DNA
  apicomplexa, 1
Polymer synthesis
  first living systems, 239
Population dynamics
  of inoculant bacteria in soil, 121
Posttranscriptional control
  iron-regulated genes, 319
Proteus
  virulence factors, 65
Pseudomonas
  denitrification, 533
  iron uptake, 319
  rhamnolipid synthesis, 47

4-Quinolones
  topoisomerase IV, 377

Recombination
  stable DNA repair, 212
Rep
  rolling-circle replication, 442
Repair
  of quinolone-induced damage, 377
  stable DNA replication, 212
Replication
  E. coli chromosome, 212
  rolling circle, 442
Respiration
  biogenesis of cytochromes, 337
RNA editing
  in kinetoplastid protozoa, 105
Rolling-circle replication
  bacterial plasmids, 442

Saccharomyces cerevisiae
  sulfur metabolism, 503
S-Adenosylmethionine
  sulfur metabolism in *S. cerevisiae*, 503
Salinity
  evolution of archaea, 90
Sexual development
  filamentous ascomycetes, 411
Siderophores
  iron uptake, 319
Signal transduction
  iron-regulated genes, 319
Slow growth
  physiology and ecology, 305
Soil
  introduction of microorganisms, 121
SOS response
  4-quinolones, 377
Stable DNA replication
  DNA repair, 212
  homologous recombination, 212
  transcription, 212
Sulfur metabolism
  in *S. cerevisiae*, 503

Surfactants
commercial potential, 47
microbial production, 47
Syntrophism
methanogenesis, 262

Topoisomerase IV
4-quinolones, 377
Toxins
common themes, 136
Transcription
AraC/XylS proteins, 393
stable DNA replication, 212
Transcriptional control
iron-regulated genes, 319
Transport
of macromolecules, 193
slow growth, 305
Trophozoites
G. lamblia differentiation, 294
Trypanosomes
RNA editing, 105

Uptake
iron, 319
slow growth, 305

Vibrio anguillarum
iron uptake, 319
Vibrio cholerae
iron uptake, 319
Virulence factors
antigenic variation, 281
common themes, 136
Proteus bacilli, 65